



1-Channel 2.5Gbps Ultra High Power PoE++ Midspan Injector



PSE102-2.5G-90W



Key Features:

Ports: Provide 2*10/100/1000/2500Mbps Ethernet ports

PoE Standard: IEEE802.3af/at/bt Power over Ethernet (PoE) Compliant

Total Power: Total power budget of 90W for all single PoE ports

Self-adaption: RJ45 port supports 10/100/1000Mbps Auto MDI/MDIX

Wide Application: Designed for Wifi AP, IP security camera and base station etc

Surge protection: Protect the device from lighting surges and others electrical hazards

Considerate Design: Exquisite compact size.wall mounted with fanless design

Easy to use: Plug and play, No configuration required

This 2.5G Multi-Gigabit Passthrough for Next-Gen Edge Networks

Seamlessly upgrades existing non-PoE 2.5G infrastructure for high-bandwidth Wi-Fi 7/6E APs, 4K/8K PTZ cameras, and IoT nodes—delivering zero-bottleneck 2.5Gbps wire-speed data transmission up to 100m.

IEEE 802.3bt Class 8 (90W Max) Smart Power Allocation

Advanced 4-pair hardware active handshake protocol adaptively powers 15.4W (PoE), 30W (PoE+), 60W, and 90W (PoE++) devices while safeguarding non-PoE equipment from accidental electrical damage.

Flame-Retardant ABS Injection Enclosure (IP40 & Wall-Mount)

Precision injection-molded from high-impact, fire-resistant ABS polymer. Features IP40 dustproof protection and built-in mounting ears for clean wall or cabinet installation.

6kV Lightning Protection & Industrial Reliability

Engineered with integrated 6kV surge immunity and 8kV ESD protection, operating reliably across harsh extended temperatures (-20°C to +50°C) for mission-critical surveillance and enterprise deployments.

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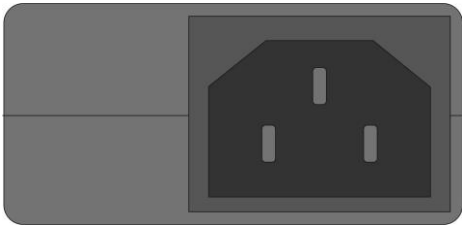
Technical Datasheet

Model	PSE102-2.5G-90W
Hardware Specifications	
Interface	"Data" Input Port: 1 x RJ45 STP "PoE (Data + Power)" Output Port: 1 x RJ45 STP AC Input Power Socket: 1
LED Indicator	System: Power x 1 (Green) PoE Port: Active, PoE ready-in-use x 1 (Green)
Network Cable	10BASE-T: 2-pair UTP Cat. 3, 4, 5, up to 100M (328ft) 100BASE-TX: 2-pair UTP Cat. 3, 4, 5, up to 100M (328ft) 1000BASE-T: 4-pair UTP Cat. 5e, 6 up to 1000M (328ft) 2500BASE-T: 4-pair UTP Cat. 5e, 6 up to 2500M (328ft) EIA/TIA-568 100-ohm STP (100m)
Data Rate	10/100/1000/2500Mbps
Unit Output Voltage	DC 50-56V
PoE Supply Type	1245(+) 3678(-)
PoE Power budget	90 watts max.
Number of Devices that can be powered	1
Power requirement	AC100-240V 50/60Hz
Environment specification	Operating temperature: -20℃~55℃, operating humidity: 5%~95% Storage temperature: -40℃~75℃, storage humidity: 5%~95%
Dimensions(W*D*H)	148*62*32mm (5.83*2.44*1.26in)
Weight	0.5Kg
Power over Ethernet (PoE) Specifications	
Network standard	IEEE 802.3 10BASE-T Ethernet IEEE 802.3u 100BASE-TX Fast Ethernet IEEE 802.3ab 1000BASE-T Gigabit Ethernet IEEE 802.3bz 2500BASE-T 2.5 Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet Plus IEEE 802.3bt High Power over Ethernet Plus
PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE IEEE 802.3bt Power over Ethernet
PoE Supply Type	1245(+) 3678(-)
Safety	FCC Part15 Class A,CE,RoHs

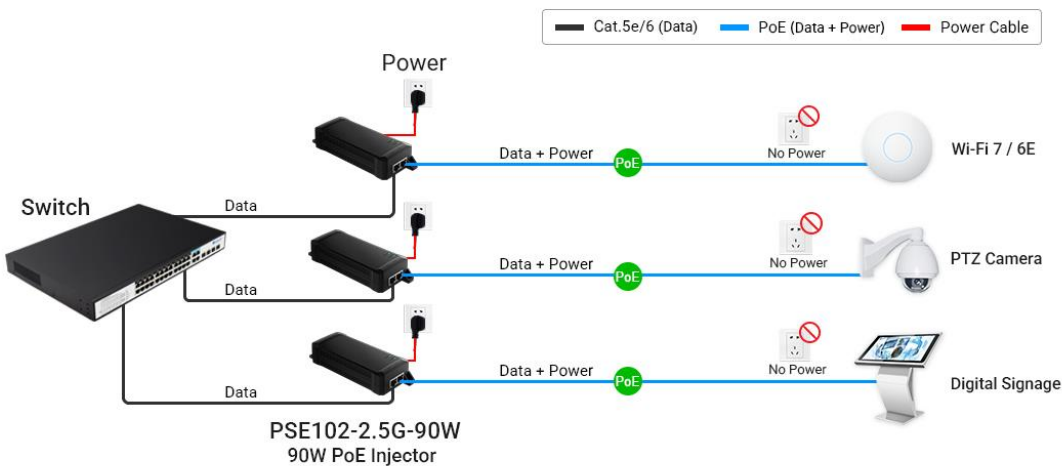
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Interfaces



Applications



Ordering Information

PSE101-2.5G-90W	1 Ports 10/100/1000/2500Mbps Ultra high power PoE midspan injector, 90W PoE budget
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